Supplementary material for the article:

**Lift on side by side disks within a granular flow**

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Figure 1: a) Snap shot of a simulation in the stationary state with $X_{sep} = 5$ cm and $U_\infty = 0.83$ m/s, which corresponds to an attractive lift force. b) Velocity field of the simulation shown in (a). The average velocity is measured in small squares of size $d$ per side. The color code is in m/s.
Figure 2: Effect of packing density.